

HIGH TEMPERATURE SUPERCONDUCTING ROTOR
FOR A SYNCHRONOUS MACHINE

Abstract of the Disclosure

A high temperature superconducting rotor for a synchronous machine includes a high temperature superconducting field winding, a field winding support concentrically arranged about the high temperature superconducting field winding, and a thermal reserve 5 concentrically arranged about the field winding support. The thermal reserve is thermally coupled to the field winding to maintain a temperature differential between the thermal reserve and the field winding not greater than about 10 K.

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